CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1 - 31. Cancelled.

32 (Previously Presented). The non-naturally occurring AAV according to claim 59, which comprises a minigene having AAV inverted terminal repeats and a heterologous gene operably linked to regulatory sequences which direct its expression in a host cell.

Claims 33 - 42. Cancelled.

43 (Previously Presented). A composition comprising the non-naturally occurring AAV according to claim 59 and a physiologically compatible carrier.

Claim 44. Cancelled.

45 (Previously Presented). A method of delivering a transgene to a cell, said method comprising the step of contacting the cell with a non-naturally occurring AAV according to claim 59, wherein said rAAV comprises the transgene.

Claims 46 - 58. Cancelled.

59 (Previously Presented). A non-naturally occurring adeno-associated virus (AAV) comprising an AAV9 capsid, wherein the AAV9 capsid is at least 95% identical to the amino acid sequence of SEQ ID NO: 123 over amino acids 1 to 736.

60 (Previously Presented). A non-naturally occurring adeno-associated virus (AAV) comprising an AAV9 capsid, wherein the AAV9 capsid comprises an AAV9 capsid protein selected from the group consisting of:

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vp1 capsid protein, amino acids (aa) 1 to 736, SEQ ID NO:123; vp2 capsid protein, aa 138 to 736, SEQ ID NO: 123; and vp3 capsid protein, aa 203 to 736, SEQ ID NO: 123.
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61 (Previously Presented). The non-naturally occurring adeno-associated virus (AAV) according to claim 60, wherein the AAV9 capsid protein is encoded by a nucleic acid sequence selected from the group consisting of:

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vp1, nucleotides (nt) 1 to 2211;
vp2, nt 411 to 2211; and
vp 3, nt 609 to 2211;
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wherein the nucleotides numbers are of AAV9, SEQ ID NO: 3.

- 62 (Previously Presented). A composition comprising a non-naturally occurring AAV according to claim 60 and a physiologically compatible carrier.
- 63 (Previously Presented). A method of delivering a transgene to a cell, said method comprising the step of contacting the cell with a AAV according to claim 65, wherein said minigene comprises the transgene.
- 64 (Previously Presented). The method according to claim 63, wherein the transgene is selected from the group consisting of: low density lipoprotein (LDL) receptor, high density lipoprotein (HDL) receptor, the very low density lipoprotein (VLDL) receptor and a scavenger receptor.

65 (Previously Presented). An adeno-associated virus (AAV) comprising an AAV9 capsid, wherein the AAV9 capsid is at least 95% identical to the amino acid sequence of SEQ ID NO: 123 over amino acids 203 to 736 and wherein said AAV further comprises a minigene having AAV inverted terminal repeats and the heterologous gene operably linked to regulatory sequences which direct its expression in an host cell.

66 (Previously Presented). The adeno-associated virus according to claim 65 wherein the AAV capsid is at least 95% identical to the amino acid sequence of SEQ ID NO: 123 over amino acids 203 to 736 and at least 90% identical to the amino acid sequence of SEQ ID NO: 123 over amino acids 1 to 736.

- 67 (New). An artificial adeno-associated virus (AAV) capsid protein comprising one or more of the AAV9/HU.14 capsid protein fragments selected from the group consisting of: aa25-28; aa137-143; aa154-156; aa171-173; aa182-186; aa185-198; aa260-273; aa262-264; aa261-274; aa262-274; aa381-383; and aa670-706, fused to one or more AAV capsid protein fragments from one or more different AAVs.
- 68 (New). The AAV capsid protein according to claim 67, wherein one of the AAV protein fragments is from AAV2.
- 69 (New). The AAV capsid protein according to claim 67, wherein the AAV9/HU.14 capsid protein fragments comprise aa185-198; aa260-273; aa381-383; and aa670-706.